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2. **Gibbs random fields, cooccurrences, and texture modeling**
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Pattern Analysis and Machine Intelligence, IEEE Transactions on
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Volume 25, Issue 2, May 2002 Page(s):143 - 153
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4. **A multiconductor transmission line methodology for global on-chip inter modeling and analysis**
Elfadel, I.M.; Deutsch, A.; Smith, H.H.; Rubin, B.J.; Kopcsay, G.V.;
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I. M. Elfadel, David D. Ling

June 1997 **Proceedings of the 34th annual conference on Design automation DAC '97**

Publisher: ACM Press

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CAD tools and research in the area of reduced-ordermodeling of large linear interconnect networks have evolvedfrom merely finding a Pad´ e approximation for the givennetwork transfer function to finding an approximate transferfunction that preserves such circuit-theoretic propertiesof the network as stability, passivity, and RLC synthesizability.In particular, preserving passivity guarantees thatthe reduced-order models will be well-behaved when embeddedback in the circuit where the interconnect ...

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A. R. Conn, I. M. Elfadel, W. W. Molzen, P. R. O'Brien, P. N. Strenski, C. Visweswariah, C. B. Whan

June 1999 **Proceedings of the 36th ACM/IEEE conference on Design automation**

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3 A block rational Arnoldi algorithm for multipoint passive model-order reduction of multiport RLC networks

I. M. Elfadel, David D. Ling

November 1997 **Proceedings of the 1997 IEEE/ACM international conference on Computer-aided design**

Publisher: IEEE Computer Society

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Recent work in the area of model-order reduction for RLC interconnect networks has been focused on building reduced-order models that preserve the circuit-theoretic properties of the network, such as stability, passivity, and synthesizability. Passivity is the one circuit-theoretic property that is vital for the successful simulation of a large circuit netlist containing reduced-order models of its interconnect networks. Non-passive reduced-order

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